Listing of Claims

1.   (Currently Amended) A method for analyzing the transcriptome of a ~~cellular sample~~ tissue section comprising analyzing two or more molecular species present in ~~a 2-dimensional array of said cellular sample~~ the tissue section while maintaining the 2-dimensional architecture of the molecules within the tissue section, wherein said method ~~comprises~~ comprises:

treating ~~said 2-dimensional array~~ the tissue section with an External Movement Inhibitor device having multiple discrete partitions, wherein the multiple discrete partitions comprise at least one of a plurality of grids or a plurality of wells, whereby each grid or well sequesters molecules corresponding to a specific region or cell type of the tissue section, thereby preserving ~~so as to sequester molecules present in said array into one or more discrete regions, wherein said treatment preserves the positional relationship~~ the 2-dimensional architecture of the molecules ~~of said 2-dimensional array~~ present within the tissue section, and ~~permits a determination of~~ determining the location(s) in ~~said cellular sample~~ the tissue section in which said two or more molecular species are present.

2.   (Currently Amended) The method of claim 1, wherein said ~~cellular sample~~ tissue section is ~~a cellular sample~~ obtained from a mammal.

3.   (Original) The method of claim 2, wherein said mammal is a human.

4.   (Canceled)

5.   (Currently Amended) The method of ~~claim 4~~ claim 1, wherein said tissue ~~sample~~ section is from a biopsy.

6.   (Original) The method of claim 1, wherein said molecular species are nucleic acid molecules.

7.   (Currently Amended) The method of claim 6, wherein said method additionally comprises incubating the sequestered ~~nucleic acid~~ molecules ~~of two or more regions~~ under conditions sufficient to permit the manipulation of one or more preselected nucleic acid molecules if present ~~at~~

~~said regions~~ in at least one of the plurality of grids or the plurality of wells, while preserving the ~~positional relationship~~ 2-dimensional architecture of said molecules relative to other molecules of said tissue section ~~2 dimensional array~~.

8   (Withdrawn) The method of claim 7, wherein said method additionally comprises transferring said manipulated nucleic acid species to two or more membranes, said membranes being differentially treated to enable the determination of the location(s) of manipulated nucleic acid species.

9.   (Original) The method of claim 7, wherein one or more of said preselected nucleic acid molecule(s) are diagnostic of a disease state.

10.   (Original) The method of claim 7, wherein said manipulation is selected from the group consisting of nucleic acid amplification, reverse transcription, labeling, cloning, and the assaying of a biomolecule.

11.   (Currently Amended) The method of claim 7, wherein said method comprises incubating the sequestered ~~nucleic acid~~ molecules ~~of all of said regions~~ in the plurality of grids or the plurality of wells under conditions sufficient to permit the manipulation of said one or more preselected nucleic acid molecules.

12.   (Original) The method of claim 11, wherein one or more of said preselected nucleic acid molecule(s) are diagnostic of a disease state.

13.   (Original) The method of claim 11, wherein said manipulation is selected from the group consisting of nucleic acid amplification, reverse transcription, labeling, cloning, and the assaying of a biomolecule.

14 - 21.   (Canceled)

22.   (Withdrawn) The method of claim 1, wherein said molecular species are protein molecules.

23.   (Withdrawn) The method of claim 22, wherein said cellular sample is an extract of a cell, and said 2-dimensional array is a gel or membrane that arrays said molecules of said extract.

24.   (Withdrawn) The method of claim 22, wherein one or more of said protein molecule(s) are diagnostic of a disease state.